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Application Number

09/285809

Filed

Apr 21 2003

Paper No. 8

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US007134929B2

(12) **United States Patent**  
**Chen**

(10) **Patent No.:** **US 7,134,929 B2**  
(45) **Date of Patent:** **Nov. 14, 2006**

(54) **TEAR RESISTANT GELS, COMPOSITES,  
AND DIVING APPAREL ARTICLES**

(75) **Inventor:** **John Y. Chen**, Hillsborough, CA (US)

(73) **Assignee:** **Applied Elastomerics, Inc.**, South San Francisco, CA (US)

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 431 days.

(21) **Appl. No.:** **10/420,488**

(22) **Filed:** **Apr. 21, 2003**

(65) **Prior Publication Data**

US 2003/0186603 A1 Oct. 2, 2003

#### **Related U.S. Application Data**

(63) Continuation-in-part of application No. 10/334,542, filed on Dec. 31, 2002, and a continuation-in-part of application No. 10/299,073, filed on Nov. 18, 2002, and a continuation-in-part of application No. 10/273,828, filed on Oct. 17, 2002, now Pat. No. 6,909,220, and a continuation-in-part of application No. 10/199,364, filed on Jul. 20, 2002, now Pat. No. 6,794,440, and a continuation-in-part of application No. 10/199,361, filed on Jul. 20, 2002, and a continuation-in-part of application No. 10/199,362, filed on Jul. 20, 2002, and a continuation-in-part of application No. 10/199,363, filed on Jul. 20, 2002, and a continuation-in-part of application No. 09/721,213, filed on Nov. 21, 2001, now Pat. No. 6,867,253, and a continuation-in-part of application No. 09/896,047, filed on Jun. 30, 2001, and a continuation-in-part of application No. 09/517,230, filed on Mar. 2, 2000, now abandoned, and a continuation-in-part of application No. 09/412,886, filed on Oct. 5, 1999, now abandoned, and a continuation-in-part of application No. 09/285,809, filed on Apr. 1, 1999, now abandoned, and a continuation-in-part of application No. 09/274,498, filed on Mar. 23, 1999, now Pat. No. 6,420,475, and a continuation-in-part of application No. 09/130,545, filed on Aug. 8, 1998, now Pat. No. 5,467,626, and a continuation-in-part of application No. 08/984,459, filed on Dec. 3, 1997, now Pat. No. 6,324,703, and a continuation-in-part of application No. PCT/US97/17534, filed on Sep. 30, 1997, and a continuation-in-part of application No. 08/909,487, filed on Aug. 12, 1997, now Pat. No. 6,050,871, and a continuation-in-part of application No. 08/863,794, filed on May 27, 1997, now Pat. No. 6,117,176, and a continuation-in-part of application No. 08/719,817, filed on Sep. 30, 1996, now Pat. No. 6,148,830, and a continuation-in-part of application No. 08/665,343, filed on Jun. 17, 1996, which is

a continuation-in-part of application No. 08/612,586, filed on Mar. 8, 1996, now Pat. No. 6,552,109, and a continuation-in-part of application No. 08/581,188, filed on Dec. 29, 1995, now abandoned, and a continuation-in-part of application No. 08/581,191, filed on Dec. 29, 1995, now Pat. No. 5,760,117, and a continuation-in-part of application No. 08/581,125, filed on Dec. 29, 1995, now Pat. No. 5,962,572, and a continuation-in-part of application No. 08/288,690, filed on Aug. 11, 1994, now Pat. No. 5,633,286, said application No. 08/581,188 is a continuation-in-part of application No. 08/288,690, filed on Aug. 11, 1994, now Pat. No. 5,633,286, and a continuation-in-part of application No. PCT/US94/07314, filed on Jun. 27, 1994, and a continuation-in-part of application No. PCT/US94/04278, filed on Apr. 19, 1994, said application No. 08/581,191 is a continuation-in-part of application No. 08/288,690, filed on Aug. 11, 1994, now Pat. No. 5,633,286, and a continuation-in-part of application No. PCT/US94/07314, filed on Jun. 27, 1994, and a continuation-in-part of application No. PCT/US94/04278, filed on Apr. 19, 1994, said application No. 08/581,125 is a continuation-in-part of application No. 08/288,690, filed on Aug. 11, 1994, now Pat. No. 5,633,286, and a continuation-in-part of application No. PCT/US94/07314, filed on Jun. 27, 1994, and a continuation-in-part of application No. PCT/US94/04278, filed on Apr. 19, 1994.

(51) **Int. Cl.**  
**B63B 9/08** (2006.01)  
**B63B 11/04** (2006.01)  
**B32B 27/30** (2006.01)  
**B32B 27/22** (2006.01)  
**C08L 53/00** (2006.01)

(52) **U.S. Cl.** ..... 441/102; 2/2.15; 2/2.16;  
442/62; 442/85; 524/505

(58) **Field of Classification Search** ..... 442/85,  
442/62; 441/102; 2/458, 2.15, 2.16; 524/505  
See application file for complete search history.

(56) **References Cited**

#### **U.S. PATENT DOCUMENTS**

6,324,703 B1 \* 12/2001 Chen ..... 2/458

\* cited by examiner

*Primary Examiner*—Herbert J. Lilling

(57) **ABSTRACT**

Composite gel articles shaped in the form of a body shaped suit for diving made by injection molding, extruding, spinning, casting, or dipping.

**12 Claims, 12 Drawing Sheets**